PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P20027PC00	FOR FURTHER ACTION	as wel	see Form PCT/ISA/220 l as, where applicable, item 5 below.			
International application No.	International filing date (day/month					
PCT/AU2004/001489	28 October 2004	day/month/year) (Earliest) Priority Date (day/month/year) 31 October 2003				
Applicant		· · ·	1			
VENTRACOR LIMITED et a	1					
Γ						
This international search report has been prep Article 18. A copy is being transmitted to the	ared by this International Searching A International Bureau.	Authority and	is transmitted to the applicant according to			
This international search report consists of a t	otal of 5 sheets.					
It is also accompanied by a copy	of each prior art document cited in t	his report.				
Basis of the report						
With regard to the language, the intention it was filed, unless otherwise indicated	national search was carried out on the I under this item.	basis of the	international application in the language in which			
The international searc Authority (Rule 23.1(b	h was carried out on the basis of a tra	nslation of th	e international application furnished to this			
b. With regard to any nucleotide a	nd/or amino acid sequence disclosed	in the intern	ational application, see Box No. I.			
2. Certain claims were found uns	earchable (See Box No. II).					
3. Unity of invention is lacking (S	ee Box No. III).	•				
4. With regard to the title,	•					
the text is approved as submitted	by the applicant.					
X the text has been established by t	this Authority to read as follows:		•			
PLASMA IMMERSION ION IMPLANTATION USING CONDUCTIVE MESH						
	÷		-			
5. With regard to the abstract,						
. the text is approved as submitted	by the applicant.					
X the text has been established, according to the text has been established.	ording to Rule 38.2(b), by this Authong of this international search report,	rity as it appo submit comm	ears in Box No. IV. The applicant may, within nents to this Authority.			
6. With regard to the drawings,						
a. the figure of the drawings to be publis	hed with the abstract is Figure No. 1	•				
X as suggested by the app	licant.					
as selected by this Author	ority, because the applicant failed to	suggest a figu	ıre. ·			
as selected by this Author	ority, because this figure better charac	cterizes the in	evention.			
b. none of the figures is to be publis	hed with the abstract.					

International application No.

PCT/AU2004/001489

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: H01J 37/32, 37/317, 37/09, 37/20, 37/30, C23C 14/48, 14/50, 14/20, C08J 3/28, A61M 1/10, 1/12

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

DOCUMENTS CONSIDERED TO BE RELEVANT

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: +contact+, a61m-001/10/ic, a61m-001/12/ic, attract+, blood, bombard+, c08j-003/28/ic, c23c-014/20/ic, c23c-014/48/ic, c23c-014/50/ic, coat+, conductive, draw+, electric, electrode, even, evenly, expose, gas, grid, grill?, h01j-037/09/ic, h01j-037/20/ic, h01j-037/30/ic, h01j-037/317/ic, h01j-037/32/ic, immersion, impeller, implant+, ion, ion?, mesh, mesh+, modif+, mount+, net+, oscillat+, pi3, piii, plasma, potential, process+, pump, rotat+, screen, screen?, screen+, shield+, spread, stage, support, support+, surface, treat+, treat+, tumbl+, volt+, voltage, web+,

Category*	Citation of document, with indication, w	here app	propriate, of the relevant passages	Relevant to claim No.	
	US 6,335,268 B1 (MURZIN et al.) 1	Januar	y 2002.		
X	The whole document.		•	1, 3, 5–6, 9–10, 12–14	
Y	The whole document.			7, 8, 15, 16	
	US 4,863,576 A (COLLINS et al.) 5	Septem	nher 1989		
X	The whole document.	Septem		1-3, 6, 9-10, 13-14	
Y	The whole document.			7,8,15,16	
•	US 6 504 307 R1 (MAI IK et al.) 7 I	[anuana	2002		
\mathbf{Y}	US 6,504,307 B1 (MALIK et al.) 7 January 2003. The whole document.		7, 8, 15, 16		
				, 1, 10, 10	
X F	Turther documents are listed in the cont	inuation	n of Box C X See patent f	amily annex	
Special	categories of cited documents:				
" docume not cons	nt defining the general state of the art which is sidered to be of particular relevance	co	ter document published after the international fi onflict with the application but cited to understa	ling date or priority date and not in	
'E" earlier a	underlying the invention lier application or patent but published on or after the "X" document of particular relevance; the claimed inv		vention cannot be considered novel		
internati	ional filing date		cannot be considered to involve an inventive s	tep when the document is taken	
'L" docume	nt which may throw doubts on priority claim(s)	"Y" do			
another	h is cited to establish the publication date of citation or other special reason (as specified)	in	volve an inventive step when the document is concluded an inventive step when the documents, such combination being obvious	ombined with one or more other	
'O" docume or other	nt referring to an oral disclosure, use, exhibition		ocument member of the same patent family	to a person skilled in the art	
"P" docume	nt published prior to the international filing date				
	than the priority date claimed				
		Date of mailing of the international sear			
7 December 2004 1 7 DEC 2004		EC 2004			
	ing address of the ISA/AU		Authorized officer		
O BOX 200	I PATENT OFFICE WODEN ACT 2606, AUSTRALIA		1		
-mail address:	pct@ipaustralia.gov.au		RAJEEV DESHMUKH		
Facsimile No. (02) 6285 3929		Telephone No : (02) 6283 2145			

International application No.

PCT/AU2004/001489

C (Continuati	on). DOCUMENTS CONSIDERED TO BE RELEVANT	т
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α	US 2001/0046566 A1 (CHU et al.) 29 November 2001. The whole document.	
· A	US 5,003,178 A (LIVESAY) 26 March 1991. The whole document.	
Α	US 6,087,615 A (SCHORK et al.) 11 July 2000. The whole document.	
A	CA 2,249,157 A (INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE) 1 April 2000. The whole document.	
Α	US 4,764,394 A (CONRAD) 16 August 1998. The whole document.	
Α	US 5,558,718 (LEUNG) 24 September 1996. The whole document.	
	Note in relation to the "Y" indications: Either US 6335268 B1 or US 4863576 A may be combined with US 6504307 B1.	
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Information on patent family members

International application No.

PCT/AU2004/001489

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Pate	nt Document Cited in Search Report		•	Pate	nt Family Member			
US	6335268	US	6055928			•		
US	4863576	NONE						
US	6504307	NONE				· · · · · · · · · · · · · · · · · · ·		
US	2001046566	US	2003116090					
US	5003178	EP	0395752	wo	9005990			j
US	6087615	DE	19618734	DE	19700856	EP	0876677	
		wọ	9727613					
CA	2249157	NONE					•	
US	4764394	NONE					0	
ÚS	5558718	NONE						

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX

International application No.

PCT/AU2004/001489

Box No. IV	Text of the Abstract (Continuation of ite	em 5 of the first sheet)
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A plasma processor (5) for modifying at least a region of a surface of a component (1); wherein the component (1) is bombarded by ions from a gas plasma environment (4); and the ions are draws towards the component (1) by a voltage source applied to a first mesh (3). The first mesh (3) is a stationary non-conformal mesh (3), and the component (1) does not contact the first mesh (3). The component (1) is moved (2) in the vicinity of the first mesh (3) to evenly expose it to ion bombardment (4).						
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